

CHAPTER 3 - HYDROLOGIC SOIL-COVER COMPLEXES

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## CHAPTER 3 - HYDROLOGIC SOIL-COVER COMPLEXES

### Introduction

Effective rainfall is that portion of precipitation that produces direct runoff. Direct runoff is water that enters the stream channels during a storm or soon after and forms a runoff hydrograph. Losses or abstractions are that portion of precipitation that does not contribute to direct runoff. The amount of runoff from a storm event largely depends on detention, infiltration, evapotranspiration, etc., and is related to soil type, vegetative cover and amount of impervious cover.

The soil-cover complex method described in SCS National Engineering Handbook, Section 4, is used to estimate runoff from rainfall. The variables used in this method apply to runoff from both agricultural and urban watersheds. A combination of a hydrologic soil group (soil) and a land use and treatment class (cover) is used to determine the hydrologic soil-cover complex. The effect of the hydrologic soil-cover complex on the amount of rainfall that runs off is represented by a runoff curve number, referred to here as CN.

In an urban watershed, the cover usually consists of both pervious and impervious surfaces. Impervious surfaces such as roofs, streets, sidewalks, driveways, and parking lots have some initial abstraction before runoff occurs. However, during an intense part of a storm event, nearly 100 percent of the rainfall may become runoff. Both initial abstraction and infiltration should be considered for pervious surfaces such as lawns, parks, and playing fields.

Initial abstraction consists of interception, infiltration, and depression storage that must be satisfied before runoff begins. Investigations have shown that runoff from small (less than annual) rainfall events comes primarily from the impervious areas. However, both the pervious and impervious areas contribute to runoff for the larger, less frequent events.

For a more complete discussion of the hydrologic soil-cover complex, see Chapter 7 through 10 of Section 4, "Hydrology", National Engineering Handbook. These chapters discuss the development of soil-cover complexes including soils, cover treatment practices for agricultural areas, and resulting runoff. A discussion of hydrologic soil-cover complexes for urban areas is found in Chapter 2 of "Urban Hydrology for Small Watersheds", SCS Technical Release Number 55.

The land use and treatment classes used on Table 3-1 and Table 3-2 are defined in Chapter 8 of Section 4, "Hydrology", National Engineering Handbook and Chapter 2 of Technical Release Number 55.

### Definitions

The definitions and interpretations of some of the more common terms in the land use classes are as follows:

#### Cultivated Land

Fallow is the agricultural land used and treated with the highest potential for runoff because the land is kept as bare as possible to conserve moisture for use by a succeeding crop. The loss due to runoff is offset by the gain due to reduced transpiration. Other kinds of fallow, such as stubble-mulch, are not listed but they can be evaluated by comparing their field condition with those for classes that are listed.

Row crop is any field crop (maize, sunflowers, soybeans, sugar beets, tomatoes, potatoes) planted in rows far enough apart that most of the soil surface is exposed to rainfall impact throughout the growing season. At planting time it is equivalent to fallow and may be so again after harvest. In most evaluations average seasonal condition is assumed. Row crops are planted either in straight rows or on the contour and they are in either a poor or good rotation.

Small grain (wheat, oats, barley, flax, etc.) is planted in rows close enough that the soil surface is not exposed except during planting and shortly thereafter. Land treatments are those used with row crops.

Close-seeded legumes or rotation meadow (alfalfa, sweetclover, timothy, etc. and combinations) are either planted in close rows or broadcast. This cover may be allowed to remain for more than a year so that year-round protection is given to the soil. The land treatments used with row crops are also used with this cover, except for row treatments if the seed is broadcast.

Rotations are planned sequences of crops, and their purpose is to maintain soil fertility or reduce erosion or provide an annual supply of a particular crop. Hydrologically, rotations range from "poor" to "good" in proportion to the amount of dense vegetation in the rotation, and they are evaluated in terms of hydrologic effects. Poor rotations are generally one-crop land uses such as continuous corn (maize) or continuous wheat or combinations of row crops, small grains, and fallow. Good rotations generally contain alfalfa or other close-seeded legume or grass to improve tilth and increase infiltration. Their hydrologic effects may carry over into succeeding years after the crop is removed though normally the effects are minor after the second year. The carry over affect is not considered in Table 3-1.

Straight-row fields are those farmed in straight rows either up and down the hill or across the slope. Where land slopes are less than about 2 percent, farming across the slope in straight rows is equivalent to contouring and should be so considered. Contoured fields are those farmed as nearly as possible on the contour. The hydrologic effect of contouring is due to the surface storage provided by the furrows because the storage prolongs the time during which infiltration can take place. The magnitude of storage depends not only on the dimensions of the furrows but also on the land slope, crop, and manner of planting and cultivation. Planting small grains or legumes on the contour makes small furrows that disappear because of climatic action during the growing season. The contour furrows used with row crops are either large when the crop is planted and made smaller by cultivation or small after planting and made larger by cultivation, depending on the type of farming. Average conditions for the growing season are used. The relative effects of contouring for all croplands are based on data from experimental watersheds having slopes from 3 to 8 percent. Stripcropping is a land use and treatment is not specifically shown because it is a composite of uses and treatments. The terraced entries in Table 3-1 refer to systems containing open-end level or graded terraces, grasses waterway outlets, and contour furrows between the terraces. The hydrologic effects are due to the replacement of a low-infiltration land used by grassed waterways and to the increased opportunity for infiltration in the furrows and terraces.

#### A. Condition or Rotation

Ratings as to "Poor" or "Good" are based largely on the proportion of dense vegetation in the rotation. "Good" will generally be used for cultivated land except where land is very droughty or severely abused.

- Pasture will be considered "poor" if it is heavily grazed and has no mulch. "Fair" pasture has between 50 and 75 percent of the area with plant cover and is moderately grazed. "Good" pasture is lightly grazed and has more than 75 percent plant cover.
- Classification of rangeland:

#### METHOD I

Rangeland in watersheds can be evaluated by means of the three vegetative conditions of rangeland shown below, which are based on cover effectiveness, not forage production. The percent of bare ground covered and the intensity of grazing are visually estimated. In making the estimates, keep in mind that over use on soils may result in lower infiltration rates due to soil compaction by the animals, an effect that may carry over for a year or more without further grazing.

<u>Vegetative (not range) condition</u>	<u>Hydrologic condition</u>
Heavily grazed. Has no mulch or has plant cover on less than 1/2 of the area.	Poor
Not heavily grazed. Has plant cover on 1/2 to 3/4 of the area.	Fair
Lightly grazed. Has plant cover on more than 3/4 of the area.	Good

#### METHOD II

An alternative system of evaluation is shown in which density and air-dry weights of grasses and litter are used. The air-dry weights are determined by sampling. Unless the employee feels qualified to conduct proper sampling procedures, or can obtain range conservationist's assistance, this method should not be used. The field work can be kept to a minimum by sampling a small number of representative sites rather than a large number of random sites. The classes with plus signs are midway between adjacent classes, so that the CN for these classes must be obtained by interpolation.

#### Air-dry weight classification of native pasture or range

<u>Cover density (Percent)</u>	Plant and litter air-dry weight (tons per acre):		
	<u>Less than 0.5</u>	<u>0.5 to 1.5</u>	<u>More than 1.5</u>
Less than 50	Poor	Poor +	Fair
50 to 75	Poor +	Fair	Fair +
More than 75	Fair	Fair +	Good

Runoff normally increases with increases in grazing pressure. Prolonged over use is particularly conducive to increasing the proportion of rainfall that occurs as runoff.

Studies indicate herbage and mulch are important in water intake on range-land and mulch contributes more than herbage to water intake rates. Total water intake on moderately grazed range is 1.6 times as great as on the heavily grazed range and water intake on ungrazed areas is 1.8 times as great on the moderately grazed pasture.

#### Terms to be Remembered

Overuse - Utilizing an excessive amount of the current year's growth which if continued will result in overgrazing and range deterioration.

Deteriorated Range - Range on which present vegetation and soil conditions represent a significant departure from natural potential; i.e., excellent vs. fair range condition class.

Range Condition Class - One of a series of arbitrary categories used to classify range condition and usually expressed as excellent, good, fair or poor.

3. "Poor" woods (farm) is heavily grazed and has no litter or new young growth. "Good" woods is protected from grazing and has a good undercover. "Fair" is in between.
4. Commercial forests will be rated according to Forest Service procedures as covered in the "Forest and Range Hydrology Handbook", U.S. Forest Service. Excerpts from that handbook are given in Chapter 9 of Section 4, "Hydrology", National Engineering Handbook.
5. Swamps and marshes that have 1/3 of the surface area or more in open water have a runoff curve number of 85. Swamps and marshes with up to 1/3 of the surface area open water and the design is a 4 percent chance (25-year frequency) or less, have a runoff curve number of 78. If the design is greater than a 4 percent chance (25-year frequency), it is assumed that over 1/3 of the surface area will be in open water on all swamps and marshes, resulting in a curve number of 85.

#### B. Practice

Straight row farming on land slopes of 1 to 2 percent, which is generally across the slope, may be considered the same as contoured. Straight row farming on land of less than 1 percent may be considered the same as contoured and terraced.

TABLE 3-1  
HYDROLOGIC CURVE NUMBER COMPUTATION SHEET

U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

LAND USE FOR RURAL AREAS

Present or Future

Watershed \_\_\_\_\_ Site \_\_\_\_\_ D.A. \_\_\_\_\_ Acres \_\_\_\_\_

Computed by \_\_\_\_\_ Date \_\_\_\_\_ Checked by \_\_\_\_\_ Date \_\_\_\_\_

Cover	Practice	Condition or Rotation	Acres per Practice	Curve Numbers				Product
				Moisture Condition II				
Fallow	Straight Row			77	86	91	94	
Row Crops	Straight Row	Poor		72	81	88	91	
	Straight Row	Good		67	78	85	89	
	Straight Row	Mulch till		61	76	84	87	
	Contoured 2/	Poor		70	79	84	88	
	Contoured 2/	Good		65	75	82	86	
	Contoured 2/	Mulch till		62	73	80	85	
	C and T 1/	Poor		66	74	80	82	
	C and T 1/	Good		62	71	78	81	
	C and T 1/	Mulch till		61	70	77	80	
	Straight Row	Poor		65	76	84	88	
Sm. Grain	Straight Row	Good		63	75	83	87	
	Straight Row	Mulch till		58	74	82	86	
	Contoured 2/	Poor		63	74	82	85	
	Contoured 2/	Good		61	73	81	84	
	Contoured 2/	Mulch till		59	72	80	83	
	C and T 1/	Poor		61	72	79	82	
	C and T 1/	Good		59	70	78	81	
	C and T 1/	Mulch till		58	69	77	80	
	Straight Row	Poor		66	77	85	89	
Legumes or Rotation Meadow	Straight Row	Good		58	72	81	85	
	Contoured 2/	Poor		64	75	83	85	
	Contoured 2/	Good		55	69	78	83	
	C and T 1/	Poor		63	73	80	83	
	C and T 1/	Good		51	67	76	80	
	Pasture	Poor		68	79	86	89	
Meadow (Permanent)	Pasture	Fair		49	69	79	84	
	Pasture	Good		39	61	74	80	
	Pasture							
Wood or Forest Land	Meadow (Permanent)	Good		30	58	71	78	
	Wood or Forest Land	Poor		45	66	77	83	
	Wood or Forest Land	Fair		36	60	73	79	
Farmstads	Wood or Forest Land	Good		25	55	70	77	
	Farmstads	--		59	74	82	86	
	Roads	Dirt Surface (Inc.R.O.W.) Hard Surface	--	72	82	87	89	
Impervious Surfaces	Roads	--		74	84	90	92	
	Water Surfaces (lakes, ponds)	--		100	100	100	100	
	Swamp (open water) 3/	--		100	100	100	100	
	Swamp (vegetated 4/)	--		85	85	85	85	
Low Density Residential	Swamp (open water) 3/	--		78	78	78	78	
	Medium Density Residential	--		47	65	76	82	
	High Density Residential	--		54	70	79	84	
	Commercial and Industrial	--		70	81	87	90	
Total Acres _____				Product Total = _____				
Weighted Runoff Curve No. Product Total = _____ Total Acres _____				= _____				

- 1/ Contoured and graded terraces or land with less than 2% slope.  
 2/ Includes level terraced areas.  
 (runoff corrected by volume)

- 3/ 1/3 of swamp surface is open water.  
 4/ Swamp has no open water and the design is a 25-year frequency or less.

TABLE 3-2

U.S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

## HYDROLOGIC CURVE NUMBER COMPUTATION SHEET

LAND USE FOR URBAN AREAS  
Present or Future

Watershed \_\_\_\_\_ Site \_\_\_\_\_ D.A. \_\_\_\_\_ Acres \_\_\_\_\_

Computed by \_\_\_\_\_ Date \_\_\_\_\_ Checked by \_\_\_\_\_ Date \_\_\_\_\_

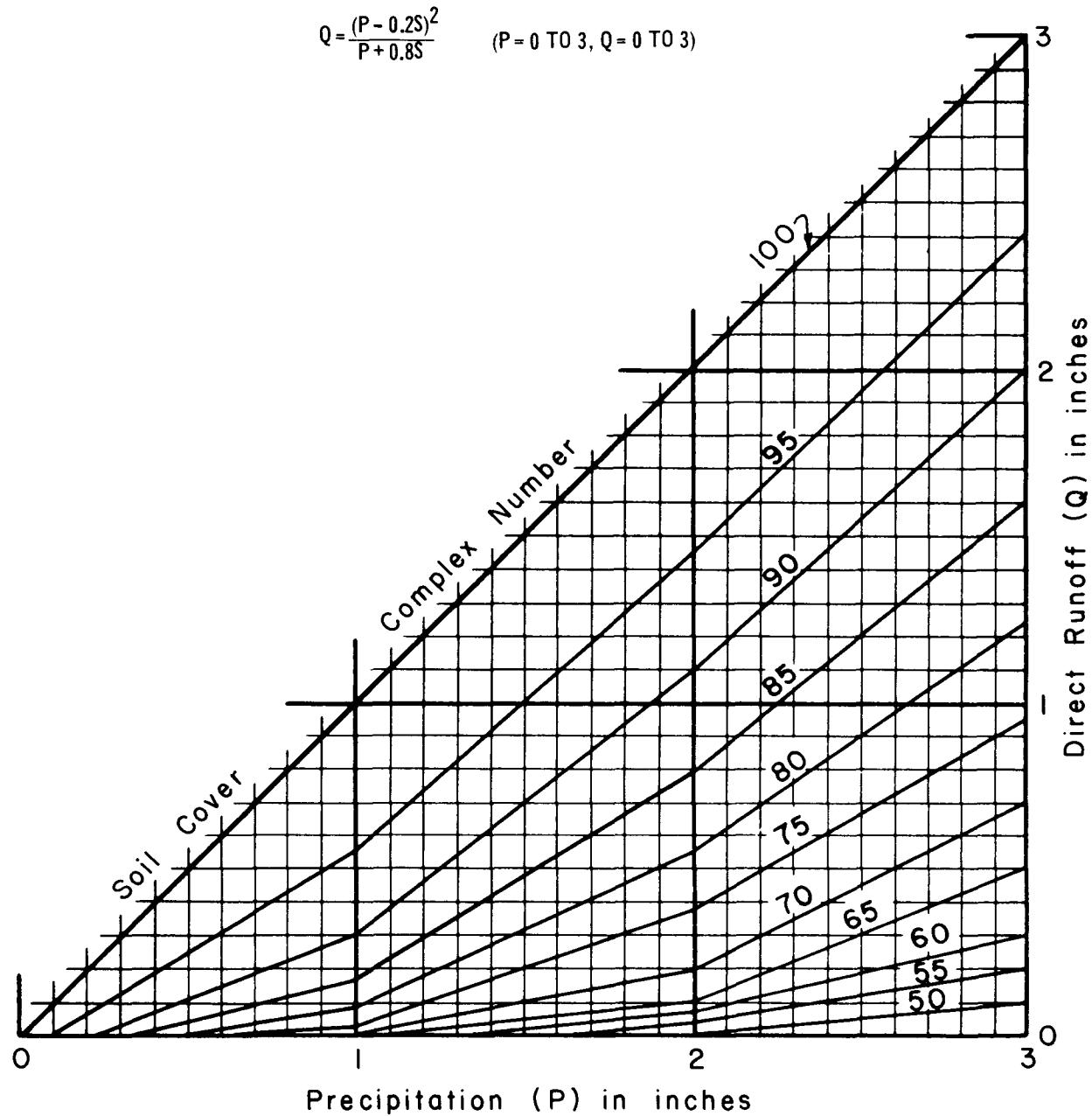
LAND USE DESCRIPTION	Acres Per Practice	Curve Numbers Moisture Condition II				Product
		A Soils	B Soils	C Soils	D Soils	
Cultivated Land: without conservation treatment with conservation treatment		72 62	81 71	88 78	91 81	
Pasture or range land: poor condition good condition		68 39	79 61	86 74	89 80	
Meadow: good condition		30	58	71	78	
Wood or Forest land: thin stand, poor cover, no mulch good cover		45 25	66 55	77 70	83 77	
Open Spaces, lawns, parks, golf courses, ceme- teries, etc. good condition: grass cover on 75% or more of the area fair condition: grass cover on 50% to 75% of the area		39	61	74	80	
49	69	79	84			
Commercial and business areas (85% impervious)		89	92	94	95	
Industrial districts (72% impervious)		81	88	91	93	
Residential:						
Average lot size      Avenue % Impervious						
1/8 acre or less      65		77	85	90	92	
1/4 acre      38		61	75	83	87	
1/3 acre      30		57	72	81	86	
1/2 acre      25		54	70	80	85	
1 acre      20		51	68	79	84	
Paved parking lots, roofs, driveways, etc.		98	98	98	98	
Streets and roads:						
paved with curbs and storm sewers		98	98	98	98	
gravel		76	85	89	91	
dirt		72	82	87	89	
Marsh		85	85	85	85	
Other						

Total Acres \_\_\_\_\_

Product Total \_\_\_\_\_

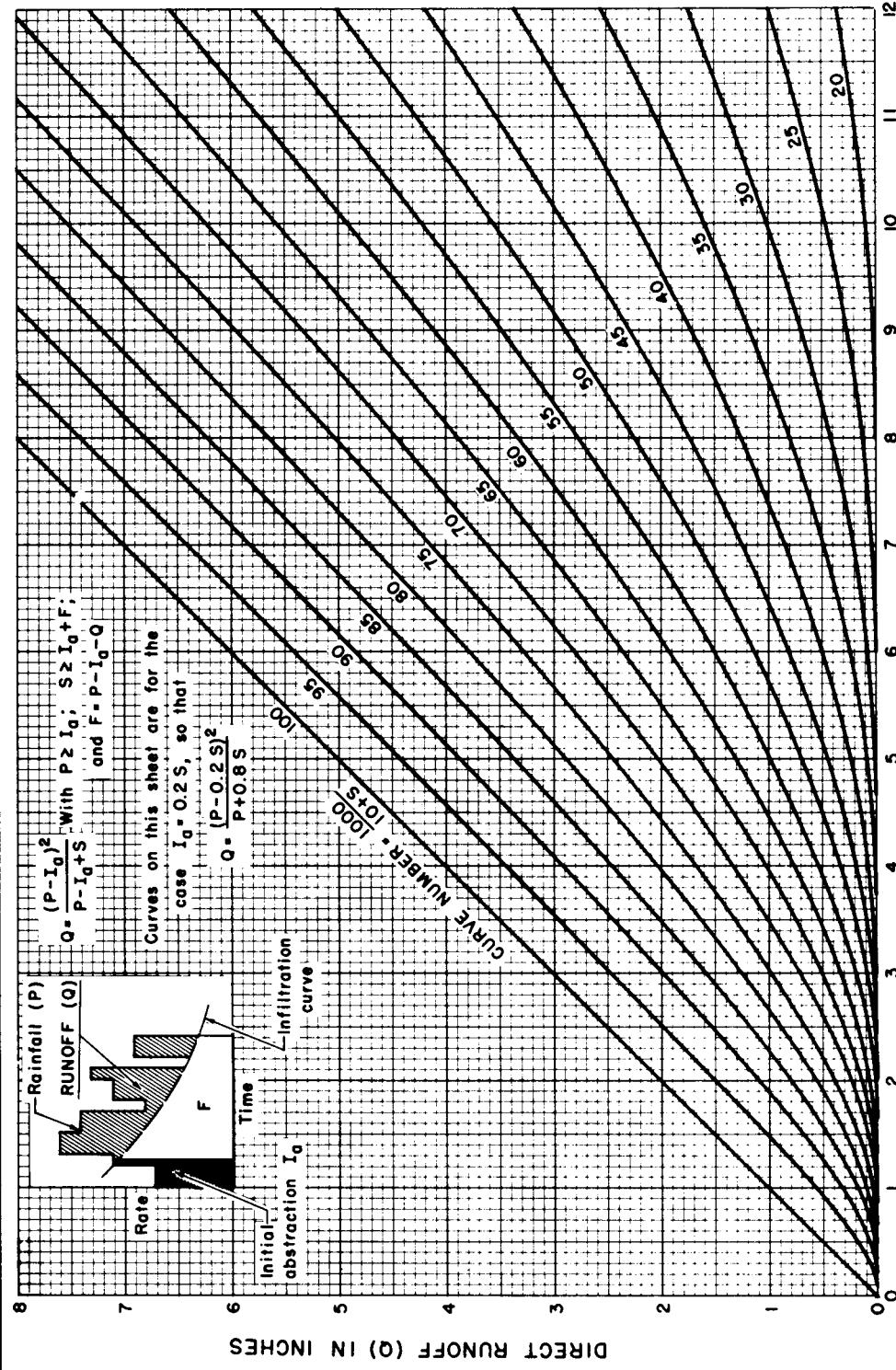
Weighted Runoff Curve No. Product Total = \_\_\_\_\_  
Total Acres = \_\_\_\_\_

**FIGURE 3-1**  
**SOLUTION OF RUNOFF EQUATION**



**HYDROLOGY: SOLUTION OF RUNOFF EQUATION**  $Q = \frac{(P-0.2S)^2}{P+0.8S}$

$P=0$  to 12 inches  
 $Q=0$  to 8 inches



REFERENCE:

Mockus, Victor; Estimating direct runoff amounts from storm rainfall:  
Central Technical Unit, October 1955

STANDARD DING. NO.

ES 1001

SHEET 1 of 2

DATE 5-29-55

REVISED 10-1-64

FIGURE 3-2

### Example Problems - Estimating Runoff From Rainfall

#### Example No. 1

Given: A 100-acre watershed in good hydrologic condition with soils of hydrologic group B and the following land use and treatment: 30 acres row crop with level terraces; 20 acres row crop with graded terraces; 20 acres row crop, straight row with a land slope of less than 2 percent; 10 acres marsh with 50% scattered open water areas; 18 acres residential area with  $\frac{1}{2}$  acre lot size; 2 acres roads, hard surface.

Determine: The runoff in acre feet from a one-day rainfall of 4.0 inches.

Solution: Since the watershed is predominately rural, use Table 3-1 to compute the weighted runoff curve number.

<u>Land Use and Treatment</u>	<u>Acres</u>	<u>Curve No.</u>	<u>Product</u>
RC, level terraces	<u>1/</u>	75	<u>1/</u>
RC, graded terraces	20	71	<u>1420</u>
RC, straight row less than 2% slope	20	71	1420 <u>2/</u>
Marsh, 50% open water	10	85	850 <u>3/</u>
Residential, med. density	18	70	1260
Roads, hard surface	<u>2</u>	84	<u>168</u>
	<u>70</u>		<u>5118</u>

$$\text{Weighted CN} = \frac{5118}{70} = 73.1 \quad \text{Use } 73$$

$$P = 4.0" \quad Q = 1.53" \quad \text{on 70 acres}$$

$$Q = 1.53 (70) \frac{(1)}{(12)} = 8.93 \text{ Acre Feet}$$

- 1/ For level terrace areas the runoff is corrected for the volume stored in the terrace channel. In this example the curve number for the level terrace area is 75. For a 4.0 inch rain the runoff is 1.67 inches and would all be stored in the terrace channel.
- 2/ For straight row on land slopes of less than 2%, assume contoured.
- 3/ If a marsh or swamp has up to 33% open water use curve number 78. For marshes with more than 33% open water use curve number 85. As the percentage of open water increases, it should be considered a water surface (lake or pond) with a curve number of 100.

Example No. 2

Given: A 100-acre watershed with soils of hydrologic group B and the following land use, treatment and hydrologic condition: 40 acres residential,  $\frac{1}{2}$  acre lot size; 20 acres commercial areas; 10 acres paved roads with curbs and storm sewers; 10 acres cemetery, grass, good condition; 20 acres row crop, level terraces, good condition.

Determine: The runoff in acre feet from a one-day rain of 4.0 inches and the runoff in acre feet from a 10-day rain of 8.0 inches.

Solution: Since the watershed is 80% urban, use Table 3-2 to compute the weighted curve number.

<u>Land Use and Treatment</u>	<u>Acres</u>	<u>Curve No.</u>	<u>Product</u>
Residential, $\frac{1}{4}$ acre lots	40	75	3000
Commercial area	20	92	1840
Paved roads with curb & storm sewers	10	98	980
Cemetery, grass, good cond.	10	61	610
Row Crop, with cons. treatment	20	71	1420
			<u>7850</u>

$$\text{Weighted CN} = \frac{7850}{100} = 78.5 \text{ Use } 79$$

One day P = 4.0" Q = 1.96" = 16.3 Acre Feet

Ten day P = 8.0" 10-day CN = 641 / Q = 3.77" = 31.4 Acre Feet

1/ Table 3-4, page 3-10

TABLE 3-3

Table for Conversion of Antecedent Moisture Condition II (AMC II)  
to Condition III

Runoff Curve No. for Condition II	Curve No. for Condition III
65	82
66	82
67	83
68	84
69	84
70	85
71	86
72	86
73	87
74	88
75	88
76	89
77	89
78	90
79	91
80	91
81	92
82	92
83	93
84	93
85	94

AMC II is generally considered applicable for the condition of watersheds in North Dakota when a storm would occur. For types of structures requiring a more conservative design, the table above is given to arrive at the appropriate curve number. For additional curve numbers see page 10.7 of NEH 4.

TABLE 3-4  
TEN-DAY RUNOFF CURVE NUMBERS\*

Runoff curve numbers for:					
1 day	10 days	1 day	10 days	1 day	10 days
100	100	80	65	60	41
99	98	79	64	59	40
98	96	78	62	58	39
97	94	77	61	57	38
96	92	76	60	56	37
95	90	75	58	55	36
94	88	74	57	54	35
93	86	73	56	53	34
92	84	72	54	52	33
91	82	71	53	51	32
90	81	70	52	50	32
89	79	69	51	49	31
88	77	68	50	48	30
87	76	67	48	47	29
86	74	66	47	46	28
85	72	65	46	45	27
84	71	64	45	44	27
83	69	63	44	43	26
82	68	62	43	42	25
81	66	61	42	41	24

\* This table is used when the 1% Chance (100 year) 10-day point rainfall is 6 or more inches.

TABLE 3-5

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 35)

CURVE  
35

## Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
4.	0	0.01	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.07
5.	0.08	0.10	0.11	0.12	0.14	0.16	0.17	0.19	0.21	0.23
6.	0.25	0.27	0.29	0.32	0.34	0.36	0.38	0.41	0.44	0.46
7.	0.49	0.52	0.55	0.58	0.61	0.64	0.67	0.70	0.74	0.76
8.	0.80	0.84	0.87	0.90	0.94	0.98	1.02	1.06	1.09	1.13
9.	1.17	1.21	1.25	1.29	1.33	1.37	1.42	1.46	1.50	1.54
10.	1.58	1.63	1.68	1.72	1.76	1.82	1.86	1.90	1.96	2.00
11.	2.05	2.10	2.15	2.20	2.24	2.30	2.35	2.40	2.45	2.50

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 36)

CURVE  
36

## Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
3.									0	0.01
4.	0.01	0.02	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
5.	0.10	0.12	0.14	0.16	0.17	0.19	0.21	0.23	0.25	0.27
6.	0.30	0.32	0.34	0.36	0.39	0.42	0.44	0.47	0.50	0.52
7.	0.56	0.58	0.62	0.65	0.68	0.72	0.74	0.78	0.82	0.85
8.	0.88	0.92	0.96	1.00	1.04	1.08	1.12	1.15	1.19	1.24
9.	1.28	1.32	1.36	1.40	1.44	1.48	1.53	1.58	1.62	1.66
10.	1.71	1.76	1.80	1.85	1.90	1.95	2.00	2.04	2.10	2.14
11.	2.20	2.24	2.30	2.34	2.40	2.45	2.50	2.56	2.61	2.66

TABLE 3-5

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 37)CURVE  
37

Rainfall Inches \ Tenths	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
3.							0	0.01	0.01	0.01
4.	0.02	0.03	0.04	0.04	0.05	0.07	0.08	0.09	0.11	0.12
5.	0.14	0.15	0.17	0.18	0.20	0.22	0.25	0.27	0.30	0.32
6.	0.34	0.36	0.39	0.42	0.44	0.48	0.50	0.53	0.56	0.60
7.	0.62	0.66	0.69	0.72	0.76	0.79	0.82	0.86	0.90	0.94
8.	0.98	1.01	1.05	1.09	1.13	1.17	1.21	1.26	1.30	1.34
9.	1.38	1.42	1.47	1.52	1.56	1.60	1.65	1.70	1.74	1.79
10.	1.84	1.88	1.94	1.99	2.04	2.08	2.14	2.18	2.24	2.29
11.	2.34	2.40	2.44	2.50	2.55	2.60	2.66	2.72	2.77	2.82

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 38)CURVE  
38

Rainfall Inches \ Tenths	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
3.	0	0	0	0	0	0	0.01	0.01	0.02	0.02
4.	0.03	0.04	0.05	0.06	0.07	0.09	0.10	0.12	0.13	0.15
5.	0.16	0.18	0.20	0.22	0.24	0.26	0.29	0.32	0.34	0.36
6.	0.39	0.42	0.44	0.48	0.50	0.54	0.56	0.60	0.63	0.66
7.	0.70	0.73	0.76	0.80	0.84	0.87	0.91	0.94	0.99	1.02
8.	1.06	1.10	1.14	1.18	1.23	1.27	1.32	1.36	1.40	1.44
9.	1.49	1.54	1.58	1.63	1.68	1.72	1.77	1.82	1.86	1.92
10.	1.96	2.02	2.06	2.12	2.17	2.22	2.28	2.32	2.38	2.43
11.	2.48	2.54	2.60	2.65	2.70	2.74	2.82	2.88	2.93	2.98

TABLE 3-5

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 39)CURVE  
39

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
3.					0	0.01	0.01	0.02	0.03	0.04
4.	0.05	0.06	0.07	0.08	0.10	0.11	0.13	0.14	0.16	0.18
5.	0.20	0.22	0.24	0.26	0.28	0.31	0.34	0.36	0.38	0.42
6.	0.44	0.47	0.50	0.53	0.56	0.60	0.63	0.66	0.70	0.73
7.	0.77	0.80	0.84	0.88	0.92	0.96	0.99	1.03	1.07	1.12
8.	1.16	1.20	1.24	1.28	1.32	1.37	1.42	1.46	1.50	1.56
9.	1.60	1.65	1.70	1.75	1.80	1.84	1.89	1.94	2.00	2.04
10.	2.10	2.14	2.20	2.25	2.30	2.36	2.42	2.46	2.52	2.58
11.	2.64	2.69	2.74	2.80	2.86	2.92	2.98	3.03	3.09	3.15

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 40)CURVE  
40

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
3.	0	0	0	0.01	0.01	0.02	0.02	0.03	0.04	0.05
4.	0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.17	0.19	0.21
5.	0.24	0.26	0.28	0.30	0.33	0.36	0.38	0.41	0.44	0.46
6.	0.50	0.53	0.56	0.60	0.62	0.66	0.70	0.73	0.76	0.80
7.	0.84	0.88	0.92	0.96	1.00	1.04	1.08	1.12	1.16	1.20
8.	1.25	1.30	1.34	1.38	1.42	1.48	1.52	1.56	1.62	1.66
9.	1.71	1.76	1.81	1.86	1.91	1.96	2.02	2.06	2.12	2.17
10.	2.22	2.28	2.34	2.38	2.44	2.50	2.56	2.61	2.66	2.72
11.	2.78	2.84	2.90	2.96	3.02	3.07	3.13	3.19	3.25	3.31

TABLE 3-5

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 41)CURVE  
41

Rainfall Inches \ Tenths	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
3.	0	0	0.01	0.01	0.02	0.03	0.03	0.04	0.06	0.07
4.	0.08	0.10	0.11	0.13	0.15	0.16	0.18	0.20	0.23	0.25
5.	0.27	0.30	0.32	0.34	0.38	0.40	0.43	0.46	0.49	0.52
6.	0.56	0.58	0.62	0.66	0.69	0.72	0.76	0.80	0.84	0.88
7.	0.92	0.96	1.00	1.04	1.08	1.12	1.16	1.21	1.25	1.30
8.	1.34	1.39	1.44	1.48	1.53	1.58	1.62	1.68	1.72	1.78
9.	1.82	1.88	1.92	1.98	2.03	2.08	2.14	2.19	2.24	2.30
10.	2.36	2.41	2.46	2.52	2.58	2.64	2.70	2.75	2.81	2.87
11.	2.93	2.98	3.04	3.10	3.16	3.23	3.29	3.35	3.41	3.48

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 42)CURVE  
42

Rainfall Inches \ Tenths	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
3.	0	0.01	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.09
4.	0.10	0.12	0.14	0.15	0.17	0.19	0.22	0.24	0.26	0.29
5.	0.31	0.34	0.36	0.39	0.42	0.45	0.48	0.52	0.54	0.58
6.	0.61	0.64	0.68	0.72	0.76	0.80	0.83	0.87	0.91	0.95
7.	1.00	1.04	1.08	1.12	1.16	1.21	1.26	1.30	1.34	1.39
8.	1.44	1.48	1.54	1.58	1.63	1.68	1.73	1.78	1.84	1.88
9.	1.94	1.99	2.04	2.10	2.15	2.20	2.26	2.32	2.38	2.43
10.	2.48	2.54	2.60	2.66	2.72	2.78	2.84	2.90	2.96	3.02
11.	3.08	3.14	3.20	3.26	3.32	3.38	3.44	3.51	3.58	3.64

TABLE 3-5

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 43)CURVE  
43

Rainfall Inches	Tenths	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
2.	0										0
3.	0.01	0.01	0.02	0.03	0.04	0.05	0.06	0.08	0.09	0.11	
4.	0.12	0.14	0.16	0.18	0.20	0.23	0.25	0.27	0.30	0.33	
5.	0.35	0.38	0.41	0.44	0.47	0.50	0.54	0.57	0.60	0.64	
6.	0.68	0.71	0.74	0.78	0.82	0.86	0.90	0.94	0.98	1.03	
7.	1.07	1.12	1.16	1.20	1.25	1.30	1.34	1.39	1.44	1.48	
8.	1.54	1.58	1.64	1.68	1.74	1.79	1.84	1.90	1.94	2.00	
9.	2.06	2.11	2.16	2.22	2.28	2.33	2.39	2.44	2.50	2.56	
10.	2.62	2.68	2.74	2.80	2.86	2.92	2.98	3.04	3.10	3.16	
11.	3.22	3.28	3.35	3.42	3.48	3.54	3.60	3.67	3.74	3.80	

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 44)CURVE  
44

Rainfall Inches	Tenths	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
2.	0	0	0	0	0	0	0	0	0	0	0.01
3.	0.02	0.02	0.03	0.04	0.05	0.07	0.08	0.10	0.11	0.13	
4.	0.15	0.17	0.19	0.21	0.24	0.26	0.29	0.31	0.34	0.37	
5.	0.40	0.42	0.46	0.49	0.52	0.56	0.59	0.62	0.66	0.70	
6.	0.74	0.78	0.82	0.86	0.90	0.94	0.98	1.02	1.06	1.11	
7.	1.16	1.20	1.24	1.29	1.34	1.38	1.44	1.48	1.53	1.58	
8.	1.64	1.68	1.74	1.79	1.84	1.90	1.95	2.00	2.06	2.12	
9.	2.17	2.22	2.28	2.34	2.40	2.46	2.52	2.58	2.63	2.69	
10.	2.75	2.81	2.88	2.94	3.00	3.06	3.12	3.18	3.24	3.31	
11.	3.38	3.44	3.50	3.56	3.63	3.70	3.76	3.83	3.90	3.96	

TABLE 3-5

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 45)CURVE  
45

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	
2.	0							0	0.01	0.01	0.02
3.	0.02	0.03	0.04	0.06	0.07	0.08	0.10	0.12	0.14	0.15	
4.	0.18	0.20	0.22	0.24	0.27	0.30	0.32	0.35	0.38	0.41	
5.	0.44	0.47	0.50	0.54	0.58	0.61	0.64	0.68	0.72	0.76	
6.	0.80	0.84	0.88	0.92	0.96	1.01	1.05	1.10	1.14	1.19	
7.	1.24	1.28	1.33	1.38	1.42	1.48	1.52	1.58	1.63	1.68	
8.	1.74	1.78	1.84	1.90	1.95	2.00	2.06	2.12	2.17	2.23	
9.	2.28	2.34	2.40	2.46	2.52	2.58	2.64	2.70	2.76	2.82	
10.	2.88	2.94	3.01	3.07	3.14	3.20	3.26	3.32	3.39	3.46	
11.	3.52	3.58	3.65	3.72	3.78	3.85	3.92	3.98	4.06	4.12	

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 46)CURVE  
46

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
2.	0					0	0.01	0.01	0.02	0.02
3.	0.03	0.05	0.06	0.07	0.09	0.10	0.12	0.14	0.16	0.18
4.	0.20	0.23	0.25	0.28	0.31	0.33	0.36	0.39	0.42	0.46
5.	0.48	0.52	0.56	0.59	0.62	0.66	0.70	0.74	0.78	0.82
6.	0.86	0.90	0.95	1.00	1.04	1.08	1.13	1.18	1.22	1.27
7.	1.32	1.36	1.42	1.46	1.52	1.57	1.62	1.68	1.72	1.78
8.	1.84	1.89	1.94	2.00	2.06	2.12	2.17	2.23	2.28	2.34
9.	2.40	2.46	2.52	2.58	2.64	2.70	2.76	2.83	2.89	2.96
10.	3.02	3.08	3.14	3.21	3.28	3.34	3.40	3.47	3.54	3.60
11.	3.67	3.74	3.80	3.87	3.94	4.00	4.08	4.14	4.22	4.28

TABLE 3-5

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 47)CURVE  
47

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
2.	0				0	0.01	0.01	0.02	0.03	0.03
3.	0.05	0.06	0.07	0.09	0.11	0.12	0.14	0.16	0.19	0.21
4.	0.23	0.26	0.29	0.31	0.34	0.37	0.40	0.44	0.47	0.50
5.	0.54	0.57	0.60	0.64	0.68	0.72	0.76	0.80	0.84	0.89
6.	0.93	0.98	1.02	1.06	1.11	1.16	1.20	1.26	1.30	1.36
7.	1.40	1.46	1.50	1.56	1.61	1.66	1.72	1.77	1.82	1.88
8.	1.94	2.00	2.05	2.10	2.16	2.22	2.28	2.34	2.40	2.46
9.	2.52	2.58	2.64	2.70	2.77	2.83	2.90	2.96	3.02	3.08
10.	3.15	3.22	3.28	3.35	3.42	3.48	3.54	3.62	3.68	3.75
11.	3.81	3.88	3.96	4.02	4.10	4.18	4.24	4.30	4.38	4.44

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 48)CURVE  
48

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
2.	0	0	0	0	0	0.01	0.02	0.03	0.03	0.05
3.	0.06	0.07	0.09	0.11	0.13	0.15	0.17	0.19	0.21	0.24
4.	0.27	0.29	0.32	0.35	0.38	0.41	0.45	0.48	0.51	0.55
5.	0.58	0.62	0.66	0.70	0.74	0.78	0.82	0.86	0.91	0.96
6.	1.00	1.04	1.09	1.14	1.18	1.24	1.28	1.34	1.38	1.44
7.	1.49	1.54	1.60	1.65	1.70	1.76	1.82	1.87	1.92	1.98
8.	2.04	2.10	2.16	2.22	2.28	2.34	2.40	2.46	2.52	2.58
9.	2.64	2.69	2.76	2.83	2.90	2.96	3.02	3.09	3.18	3.22
10.	3.28	3.35	3.42	3.48	3.56	3.62	3.69	3.76	3.82	3.90
11.	3.96	4.04	4.10	4.18	4.24	4.32	4.39	4.46	4.54	4.60

TABLE 3-5

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 49)CURVE  
49

## Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
2.	0	0	0	0	0.01	0.02	0.02	0.03	0.05	0.06
3.	0.07	0.09	0.11	0.13	0.15	0.17	0.19	0.22	0.24	0.27
4.	0.30	0.33	0.36	0.39	0.42	0.46	0.49	0.53	0.56	0.60
5.	0.64	0.68	0.72	0.76	0.80	0.84	0.88	0.93	0.98	1.02
6.	1.07	1.12	1.16	1.22	1.26	1.32	1.36	1.42	1.47	1.52
7.	1.58	1.63	1.68	1.74	1.80	1.86	1.91	1.97	2.02	2.08
8.	2.14	2.20	2.26	2.32	2.38	2.44	2.50	2.57	2.64	2.70
9.	2.76	2.82	2.89	2.96	3.02	3.08	3.15	3.22	3.28	3.35
10.	3.42	3.48	3.56	3.62	3.70	3.76	3.83	3.90	3.97	4.04
11.	4.12	4.18	4.26	4.33	4.40	4.47	4.54	4.62	4.69	4.76

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 50)CURVE  
50

## Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
2.	0	0	0	0.01	0.02	0.02	0.03	0.05	0.06	0.07
3.	0.09	0.11	0.13	0.15	0.17	0.20	0.22	0.25	0.27	0.30
4.	0.33	0.36	0.40	0.43	0.46	0.50	0.54	0.57	0.61	0.65
5.	0.69	0.73	0.78	0.82	0.86	0.90	0.95	0.99	1.04	1.09
6.	1.14	1.19	1.24	1.29	1.34	1.40	1.44	1.50	1.56	1.61
7.	1.66	1.72	1.78	1.84	1.89	1.95	2.01	2.06	2.12	2.18
8.	2.25	2.31	2.37	2.43	2.50	2.56	2.62	2.68	2.75	2.82
9.	2.88	2.94	3.01	3.08	3.14	3.21	3.28	3.34	3.40	3.48
10.	3.56	3.62	3.69	3.76	3.83	3.90	3.98	4.04	4.11	4.19
11.	4.26	4.34	4.40	4.48	4.55	4.62	4.70	4.78	4.85	4.92

TABLE 3-5

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 51)

CURVE
51

Rainfall Inches \ Tents	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
2.	0	0	0.01	0.01	0.02	0.03	0.04	0.06	0.07	0.09
3.	0.11	0.13	0.15	0.17	0.20	0.22	0.25	0.28	0.31	0.34
4.	0.37	0.40	0.44	0.47	0.51	0.55	0.58	0.62	0.66	0.70
5.	0.74	0.78	0.83	0.88	0.92	0.97	1.02	1.06	1.12	1.16
6.	1.22	1.26	1.32	1.37	1.42	1.48	1.53	1.58	1.64	1.70
7.	1.76	1.81	1.87	1.92	1.98	2.04	2.10	2.16	2.23	2.29
8.	2.36	2.42	2.48	2.54	2.60	2.67	2.74	2.80	2.86	2.94
9.	3.00	3.06	3.14	3.20	3.27	3.34	3.41	3.48	3.54	3.62
10.	3.68	3.76	3.83	3.90	3.97	4.04	4.12	4.19	4.26	4.34
11.	4.41	4.48	4.56	4.63	4.70	4.78	4.86	4.93	5.00	5.08

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 52)

CURVE
52

Rainfall Inches \ Tents	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
2.	0	0.01	0.01	0.02	0.03	0.04	0.06	0.07	0.09	0.11
3.	0.13	0.15	0.17	0.20	0.22	0.25	0.28	0.31	0.34	0.37
4.	0.41	0.44	0.49	0.52	0.55	0.59	0.63	0.67	0.72	0.76
5.	0.80	0.84	0.90	0.94	0.98	1.04	1.08	1.14	1.18	1.24
6.	1.28	1.34	1.40	1.44	1.50	1.56	1.62	1.67	1.73	1.78
7.	1.84	1.90	1.96	2.02	2.08	2.14	2.20	2.27	2.33	2.40
8.	2.46	2.52	2.59	2.66	2.72	2.78	2.85	2.92	2.98	3.06
9.	3.12	3.19	3.26	3.33	3.40	3.46	3.54	3.61	3.68	3.75
10.	3.82	3.90	3.96	4.04	4.11	4.19	4.26	4.33	4.40	4.48
11.	4.56	4.63	4.70	4.78	4.86	4.94	5.01	5.08	5.16	5.24

TABLE 3-5

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 53)CURVE  
53

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
2.	0.01	0.01	0.02	0.03	0.04	0.05	0.07	0.09	0.11	0.13
3.	0.15	0.17	0.20	0.22	0.25	0.28	0.31	0.34	0.38	0.41
4.	0.45	0.48	0.53	0.56	0.60	0.64	0.68	0.73	0.77	0.81
5.	0.86	0.91	0.95	1.00	1.05	1.10	1.15	1.20	1.26	1.31
6.	1.36	1.42	1.47	1.52	1.58	1.64	1.70	1.76	1.82	1.88
7.	1.94	2.00	2.06	2.12	2.18	2.24	2.30	2.37	2.44	2.50
8.	2.56	2.63	2.70	2.76	2.83	2.90	2.96	3.04	3.10	3.17
9.	3.24	3.31	3.38	3.45	3.52	3.60	3.66	3.74	3.81	3.88
10.	4.06	4.12	4.20	4.28	4.35	4.42	4.50	4.57	4.65	4.73
11.	4.80	4.88	4.96	5.04	5.11	5.19	5.27	5.34	5.42	5.50

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 54)CURVE  
54

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
2.	0.01	0.02	0.03	0.04	0.05	0.07	0.09	0.10	0.13	0.15
3.	0.17	0.20	0.22	0.25	0.28	0.31	0.35	0.38	0.41	0.45
4.	0.49	0.53	0.57	0.61	0.65	0.69	0.73	0.78	0.83	0.87
5.	0.92	0.96	1.02	1.06	1.12	1.17	1.22	1.28	1.33	1.38
6.	1.44	1.50	1.55	1.61	1.66	1.73	1.78	1.85	1.91	1.96
7.	2.03	2.09	2.16	2.22	2.28	2.35	2.41	2.48	2.54	2.61
8.	2.68	2.74	2.81	2.88	2.95	3.02	3.08	3.15	3.22	3.30
9.	3.36	3.44	3.50	3.58	3.65	3.72	3.80	3.87	3.94	4.02
10.	4.09	4.16	4.24	4.32	4.39	4.46	4.54	4.62	4.70	4.77
11.	4.85	4.92	5.01	5.08	5.16	5.24	5.32	5.39	5.48	5.56

TABLE 3-5  
RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 55)

CURVE  
55

Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.										
1.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
2.	0.02	0.03	0.04	0.05	0.06	0.08	0.10	0.12	0.14	0.16
3.	0.19	0.22	0.25	0.28	0.31	0.34	0.37	0.41	0.45	0.49
4.	0.53	0.57	0.61	0.65	0.69	0.73	0.78	0.83	0.88	0.93
5.	0.98	1.03	1.08	1.13	1.18	1.23	1.28	1.34	1.40	1.46
6.	1.52	1.58	1.63	1.69	1.75	1.81	1.87	1.93	1.99	2.06
7.	2.12	2.18	2.24	2.31	2.38	2.44	2.51	2.58	2.64	2.71
8.	2.78	2.85	2.92	2.99	3.06	3.13	3.20	3.27	3.34	3.41
9.	3.48	3.56	3.63	3.70	3.78	3.85	3.92	3.99	4.07	4.15
10.	4.22	4.30	4.38	4.45	4.53	4.61	4.69	4.76	4.84	4.91

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 56)

CURVE  
56

Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.										
1.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
2.	0.02	0.03	0.04	0.06	0.08	0.10	0.12	0.14	0.16	0.19
3.	0.22	0.25	0.28	0.31	0.34	0.38	0.42	0.45	0.49	0.53
4.	0.57	0.61	0.65	0.70	0.75	0.80	0.84	0.89	0.94	0.99
5.	1.04	1.09	1.14	1.19	1.25	1.31	1.37	1.42	1.48	1.54
6.	1.60	1.66	1.72	1.78	1.84	1.90	1.96	2.02	2.08	2.15
7.	2.22	2.28	2.35	2.42	2.48	2.55	2.62	2.69	2.76	2.83
8.	2.90	2.97	3.04	3.11	3.18	3.25	3.32	3.39	3.46	3.53
9.	3.60	3.68	3.76	3.83	3.91	3.99	4.06	4.13	4.20	4.28
10.	4.36	4.44	4.52	4.59	4.67	4.75	4.83	4.91	4.98	5.06

TABLE 3-5  
RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 57)

CURVE  
57

Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.										
1.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02
2.	0.03	0.04	0.05	0.07	0.09	0.11	0.13	0.16	0.19	0.22
3.	0.25	0.28	0.31	0.34	0.37	0.41	0.45	0.49	0.53	0.58
4.	0.62	0.66	0.70	0.75	0.80	0.85	0.90	0.95	1.00	1.05
5.	1.10	1.15	1.21	1.27	1.32	1.37	1.43	1.49	1.55	1.61
6.	1.67	1.73	1.80	1.86	1.92	1.99	2.05	2.12	2.18	2.25
7.	2.31	2.38	2.45	2.51	2.58	2.65	2.72	2.79	2.86	2.93
8.	3.00	3.07	3.14	3.22	3.29	3.36	3.44	3.51	3.58	3.66
9.	3.73	3.81	3.88	3.96	4.03	4.11	4.18	4.26	4.34	4.42
10.	4.50	4.57	4.65	4.73	4.81	4.89	4.97	5.05	5.13	5.21

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 58)

CURVE  
58

Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.										
1.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03
2.	0.04	0.05	0.07	0.09	0.11	0.13	0.15	0.18	0.21	0.24
3.	0.27	0.30	0.34	0.38	0.41	0.45	0.49	0.53	0.57	0.61
4.	0.66	0.71	0.76	0.80	0.85	0.90	0.95	1.00	1.05	1.11
5.	1.17	1.22	1.27	1.33	1.39	1.45	1.51	1.57	1.63	1.69
6.	1.76	1.82	1.88	1.95	2.01	2.07	2.14	2.21	2.27	2.34
7.	2.41	2.48	2.55	2.61	2.68	2.75	2.82	2.90	2.97	3.04
8.	3.11	3.18	3.26	3.33	3.40	3.48	3.55	3.63	3.70	3.78
9.	3.85	3.93	4.01	4.08	4.16	4.24	4.32	4.39	4.47	4.55
10.	4.63	4.71	4.79	4.87	4.95	5.03	5.11	5.19	5.27	5.35

TABLE 3-5  
RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 59)

CURVE  
59

Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.										
1.	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.03
2.	0.04	0.06	0.08	0.10	0.12	0.15	0.18	0.21	0.24	0.27
3.	0.30	0.33	0.37	0.41	0.45	0.49	0.53	0.57	0.62	0.67
4.	0.71	0.76	0.81	0.86	0.91	0.96	1.01	1.07	1.12	1.18
5.	1.23	1.29	1.35	1.41	1.47	1.53	1.59	1.65	1.71	1.77
6.	1.83	1.90	1.97	2.03	2.10	2.17	2.23	2.30	2.37	2.44
7.	2.51	2.58	2.65	2.72	2.79	2.86	2.93	3.00	3.08	3.15
8.	3.22	3.30	3.37	3.45	3.52	3.60	3.67	3.75	3.82	3.90
9.	3.98	4.05	4.13	4.21	4.29	4.37	4.45	4.53	4.60	4.68
10.	4.76	4.84	4.92	5.00	5.09	5.17	5.25	5.33	5.41	5.49

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 60)

CURVE  
60

Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.										
1.	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.04
2.	0.06	0.08	0.10	0.12	0.14	0.17	0.20	0.23	0.27	0.30
3.	0.33	0.37	0.41	0.45	0.49	0.53	0.57	0.62	0.67	0.72
4.	0.76	0.81	0.86	0.91	0.97	1.03	1.08	1.13	1.19	1.25
5.	1.30	1.36	1.42	1.48	1.54	1.61	1.67	1.73	1.80	1.86
6.	1.92	1.99	2.06	2.12	2.19	2.26	2.33	2.40	2.47	2.54
7.	2.61	2.68	2.75	2.82	2.89	2.97	3.04	3.11	3.18	3.26
8.	3.34	3.41	3.49	3.56	3.64	3.72	3.79	3.87	3.95	4.03
9.	4.10	4.18	4.26	4.34	4.42	4.50	4.58	4.66	4.74	4.82
10.	4.90	4.98	5.07	5.15	5.23	5.31	5.39	5.48	5.56	5.64

TABLE 3-5  
RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 61)

CURVE  
61

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.										
1.						0.01	0.02	0.03	0.04	0.05
2.	0.07	0.09	0.11	0.14	0.17	0.20	0.23	0.26	0.29	0.32
3.	0.36	0.40	0.44	0.48	0.52	0.57	0.62	0.67	0.71	0.76
4.	0.81	0.86	0.91	0.96	1.02	1.08	1.13	1.19	1.25	1.31
5.	1.37	1.43	1.49	1.55	1.61	1.68	1.74	1.81	1.87	1.94
6.	2.01	2.07	2.14	2.21	2.28	2.35	2.42	2.49	2.56	2.63
7.	2.70	2.77	2.84	2.91	2.98	3.06	3.14	3.22	3.29	3.37
8.	3.44	3.52	3.60	3.67	3.75	3.82	3.91	3.99	4.07	4.14
9.	4.22	4.30	4.38	4.46	4.54	4.62	4.71	4.79	4.87	4.95
10.	5.03	5.11	5.20	5.28	5.36	5.44	5.53	5.61	5.70	5.78

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 62)

CURVE  
62

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.										
1.						0.01	0.02	0.03	0.05	0.07
2.	0.09	0.11	0.13	0.16	0.19	0.22	0.25	0.28	0.32	0.36
3.	0.40	0.44	0.48	0.52	0.56	0.61	0.66	0.71	0.76	0.81
4.	0.86	0.91	0.96	1.02	1.08	1.14	1.20	1.26	1.32	1.38
5.	1.44	1.50	1.56	1.62	1.68	1.74	1.81	1.88	1.95	2.02
6.	2.09	2.16	2.23	2.30	2.37	2.44	2.51	2.58	2.65	2.72
7.	2.80	2.87	2.94	3.02	3.09	3.17	3.24	3.32	3.40	3.48
8.	3.55	3.63	3.71	3.79	3.86	3.94	4.02	4.10	4.18	4.26
9.	4.34	4.42	4.50	4.59	4.67	4.75	4.83	4.91	5.00	5.08
10.	5.16	5.25	5.33	5.41	5.50	5.58	5.66	5.75	5.83	5.92

TABLE 3-5  
RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 63)

CURVE  
63

Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.										
1.						0.02	0.03	0.04	0.06	0.08
2.	0.10	0.12	0.15	0.18	0.21	0.25	0.28	0.32	0.35	0.39
3.	0.43	0.47	0.52	0.57	0.61	0.66	0.71	0.76	0.81	0.86
4.	0.92	0.98	1.03	1.09	1.15	1.21	1.26	1.32	1.38	1.44
5.	1.51	1.58	1.64	1.70	1.76	1.83	1.90	1.97	2.04	2.11
6.	2.18	2.25	2.32	2.39	2.47	2.54	2.61	2.68	2.76	2.83
7.	2.91	2.98	3.06	3.13	3.21	3.28	3.36	3.44	3.52	3.59
8.	3.67	3.75	3.83	3.91	3.99	4.07	4.15	4.23	4.31	4.39
9.	4.48	4.56	4.64	4.72	4.80	4.89	4.97	5.05	5.14	5.22
10.	5.30	5.39	5.47	5.56	5.64	5.73	5.81	5.90	5.98	6.07

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 64)

CURVE  
64

Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.										
1.	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.05	0.07	0.09
2.	0.11	0.14	0.17	0.20	0.23	0.26	0.30	0.34	0.38	0.42
3.	0.47	0.51	0.56	0.60	0.65	0.70	0.75	0.80	0.85	0.91
4.	0.97	1.03	1.09	1.15	1.21	1.26	1.32	1.38	1.45	1.51
5.	1.58	1.64	1.71	1.77	1.84	1.91	1.98	2.05	2.12	2.19
6.	2.26	2.33	2.40	2.48	2.55	2.62	2.70	2.77	2.85	2.92
7.	3.00	3.07	3.15	3.23	3.30	3.38	3.46	3.54	3.62	3.69
8.	3.77	3.85	3.93	4.01	4.09	4.18	4.26	4.34	4.42	4.50
9.	4.59	4.67	4.75	4.84	4.92	5.00	5.09	5.17	5.26	5.34
10.	5.43	5.51	5.59	5.68	5.76	5.85	5.94	6.02	6.11	6.20

TABLE 3-5  
RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 65)

CURVE  
65

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.										
1.	0.00	0.00	0.00	0.01	0.02	0.03	0.04	0.06	0.08	0.10
2.	0.13	0.16	0.19	0.23	0.26	0.30	0.33	0.37	0.42	0.46
3.	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.86	0.91	0.97
4.	1.03	1.09	1.15	1.21	1.27	1.33	1.39	1.45	1.52	1.58
5.	1.65	1.72	1.78	1.85	1.92	1.99	2.06	2.13	2.20	2.28
6.	2.35	2.42	2.50	2.57	2.64	2.72	2.80	2.87	2.94	3.02
7.	3.10	3.18	3.25	3.33	3.41	3.49	3.57	3.65	3.73	3.81
8.	3.89	3.97	4.05	4.13	4.22	4.30	4.38	4.46	4.54	4.62
9.	4.71	4.80	4.88	4.96	5.05	5.13	5.22	5.30	5.39	5.47
10.	5.56	5.65	5.73	5.82	5.90	5.99	6.08	6.17	6.26	6.34

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 66)

CURVE  
66

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.										
1.	0.00	0.00	0.01	0.01	0.02	0.04	0.06	0.08	0.10	0.12
2.	0.15	0.18	0.21	0.25	0.29	0.33	0.37	0.41	0.45	0.50
3.	0.55	0.60	0.65	0.70	0.75	0.80	0.86	0.91	0.97	1.03
4.	1.09	1.15	1.21	1.27	1.33	1.39	1.46	1.53	1.59	1.66
5.	1.73	1.80	1.87	1.94	2.01	2.08	2.15	2.22	2.29	2.36
6.	2.44	2.51	2.59	2.67	2.74	2.82	2.89	2.97	3.05	3.12
7.	3.20	3.28	3.36	3.44	3.52	3.60	3.68	3.76	3.84	3.93
8.	4.01	4.09	4.17	4.26	4.34	4.43	4.51	4.59	4.67	4.76
9.	4.84	4.93	5.01	5.10	5.18	5.27	5.35	5.43	5.50	5.61
10.	5.70	5.78	5.87	5.96	6.05	6.13	6.22	6.31	6.40	6.49

TABLE 3-5  
RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 67)

CURVE  
67

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.										
1.	0.00	0.00	0.01	0.02	0.03	0.05	0.07	0.09	0.12	0.15
2.	0.18	0.21	0.24	0.28	0.32	0.36	0.40	0.44	0.49	0.54
3.	0.59	0.64	0.69	0.74	0.79	0.85	0.91	0.97	1.03	1.09
4.	1.15	1.21	1.27	1.34	1.40	1.47	1.53	1.60	1.67	1.74
5.	1.81	1.88	1.95	2.02	2.09	2.16	2.23	2.31	2.39	2.46
6.	2.54	2.61	2.69	2.76	2.84	2.92	3.00	3.08	3.15	3.23
7.	3.31	3.39	3.47	3.55	3.64	3.72	3.80	3.88	3.96	4.04
8.	4.13	4.21	4.29	4.38	4.46	4.55	4.63	4.71	4.80	4.89
9.	4.97	5.06	5.14	5.23	5.31	5.40	5.49	5.58	5.66	5.75
10.	5.84	5.92	6.01	6.10	6.19	6.28	6.36	6.45	6.54	6.63

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 68)

CURVE  
68

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.										
1.	0.00	0.01	0.01	0.02	0.04	0.06	0.08	0.11	0.13	0.16
2.	0.19	0.23	0.26	0.30	0.34	0.38	0.43	0.48	0.53	0.58
3.	0.63	0.68	0.73	0.78	0.84	0.90	0.96	1.02	1.08	1.14
4.	1.20	1.26	1.33	1.40	1.47	1.53	1.60	1.67	1.74	1.81
5.	1.88	1.95	2.02	2.09	2.16	2.24	2.32	2.39	2.47	2.54
6.	2.62	2.70	2.78	2.85	2.93	3.01	3.09	3.17	3.25	3.33
7.	3.41	3.49	3.57	3.65	3.73	3.82	3.90	3.99	4.07	4.15
8.	4.23	4.32	4.40	4.49	4.57	4.66	4.74	4.83	4.91	5.00
9.	5.09	5.17	5.26	5.35	5.43	5.52	5.61	5.70	5.78	5.87
10.	5.96	6.05	6.14	6.23	6.32	6.40	6.49	6.58	6.67	6.76

TABLE 3-5  
RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 69)

CURVE  
69

Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.										
1.	0.00	0.01	0.02	0.03	0.05	0.07	0.09	0.12	0.15	0.18
2.	0.22	0.25	0.29	0.33	0.38	0.42	0.47	0.52	0.57	0.62
3.	0.67	0.72	0.78	0.84	0.90	0.96	1.02	1.08	1.14	1.20
4.	1.27	1.33	1.40	1.47	1.53	1.60	1.67	1.74	1.81	1.88
5.	1.96	2.03	2.10	2.18	2.25	2.33	2.40	2.48	2.56	2.63
6.	2.71	2.79	2.87	2.95	3.03	3.11	3.19	3.27	3.35	3.43
7.	3.51	3.60	3.68	3.76	3.84	3.93	4.01	4.10	4.18	4.26
8.	4.35	4.44	4.52	4.61	4.69	4.78	4.86	4.95	5.04	5.12
9.	5.21	5.30	5.39	5.48	5.56	5.65	5.74	5.82	5.91	6.00
10.	6.09	6.18	6.27	6.36	6.45	6.54	6.63	6.72	6.81	6.90

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 70)

CURVE  
70

Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.										
1.	0.00	0.01	0.02	0.04	0.06	0.08	0.11	0.14	0.17	0.20
2.	0.24	0.28	0.32	0.36	0.40	0.45	0.50	0.55	0.60	0.65
3.	0.71	0.77	0.83	0.89	0.95	1.01	1.07	1.13	1.19	1.25
4.	1.33	1.40	1.46	1.53	1.60	1.67	1.74	1.81	1.88	1.96
5.	2.04	2.11	2.19	2.26	2.33	2.41	2.49	2.57	2.64	2.72
6.	2.80	2.88	2.96	3.04	3.13	3.21	3.29	3.37	3.45	3.53
7.	3.61	3.70	3.79	3.87	3.95	4.04	4.12	4.20	4.28	4.37
8.	4.46	4.55	4.64	4.72	4.81	4.90	4.98	5.07	5.16	5.25
9.	5.33	5.42	5.51	5.60	5.69	5.78	5.87	5.96	6.05	6.14
10.	6.23	6.32	6.41	6.50	6.59	6.68	6.77	6.86	6.95	7.04

TABLE 3-5  
RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 71)

CURVE  
71

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.										
1.	0.01	0.02	0.03	0.05	0.07	0.10	0.13	0.16	0.19	0.22
2.	0.26	0.30	0.34	0.39	0.44	0.49	0.54	0.59	0.64	0.70
3.	0.76	0.82	0.88	0.94	1.00	1.06	1.13	1.19	1.26	1.33
4.	1.39	1.46	1.53	1.60	1.67	1.74	1.81	1.89	1.97	2.04
5.	2.11	2.19	2.27	2.34	2.42	2.50	2.58	2.66	2.74	2.82
6.	2.90	2.98	3.06	3.14	3.22	3.30	3.38	3.47	3.55	3.63
7.	3.72	3.80	3.88	3.97	4.06	4.14	4.23	4.32	4.40	4.49
8.	4.58	4.67	4.75	4.82	4.93	5.02	5.10	5.19	5.28	5.37
9.	5.46	5.55	5.64	5.73	5.82	5.90	5.99	6.08	6.17	6.27
10.	6.36	6.45	6.54	6.63	6.72	6.81	6.90	6.99	7.08	7.18

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 72)

CURVE  
72

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.										
1.	0.01	0.02	0.04	0.06	0.08	0.11	0.14	0.17	0.21	0.25
2.	0.29	0.33	0.38	0.43	0.48	0.53	0.58	0.63	0.69	0.75
3.	0.81	0.87	0.93	0.99	1.05	1.12	1.19	1.26	1.32	1.39
4.	1.46	1.53	1.60	1.68	1.75	1.82	1.89	1.97	2.05	2.12
5.	2.19	2.27	2.35	2.43	2.51	2.59	2.67	2.75	2.83	2.91
6.	2.99	3.08	3.16	3.24	3.32	3.41	3.49	3.57	3.66	3.75
7.	3.83	3.91	4.00	4.08	4.17	4.26	4.35	4.44	4.52	4.61
8.	4.69	4.78	4.87	4.96	5.05	5.14	5.23	5.31	5.40	5.49
9.	5.58	5.67	5.76	5.85	5.94	6.03	6.13	6.22	6.31	6.40
10.	6.49	6.58	6.67	6.76	6.85	6.95	7.04	7.13	7.22	7.31

TABLE 3-5  
RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 73)

CURVE 73
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Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
1.	0.02	0.03	0.05	0.07	0.10	0.13	0.16	0.20	0.24	0.28
2.	0.32	0.37	0.41	0.46	0.52	0.57	0.62	0.68	0.74	0.80
3.	0.86	0.92	0.98	1.04	1.11	1.18	1.25	1.32	1.39	1.46
4.	1.53	1.60	1.67	1.75	1.82	1.90	1.97	2.04	2.12	2.20
5.	2.28	2.36	2.44	2.52	2.60	2.68	2.76	2.84	2.92	3.00
6.	3.09	3.17	3.25	3.34	3.43	3.51	3.60	3.68	3.76	3.85
7.	3.94	4.02	4.11	4.20	4.29	4.37	4.46	4.55	4.64	4.73
8.	4.81	4.90	4.99	5.08	5.17	5.26	5.35	5.44	5.53	5.62
9.	5.71	5.80	5.89	5.98	6.07	6.16	6.25	6.35	6.44	6.53
10.	6.62	6.71	6.81	6.90	6.99	7.08	7.17	7.27	7.36	7.45

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 74)

CURVE 74
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Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.									0.00	0.01
1.	0.02	0.04	0.06	0.09	0.12	0.15	0.18	0.21	0.27	0.31
2.	0.35	0.40	0.45	0.50	0.55	0.61	0.67	0.73	0.79	0.85
3.	0.91	0.97	1.04	1.11	1.18	1.25	1.32	1.38	1.45	1.52
4.	1.60	1.68	1.75	1.83	1.90	1.98	2.06	2.13	2.21	2.29
5.	2.37	2.45	2.53	2.61	2.69	2.78	2.86	2.94	3.02	3.10
6.	3.19	3.28	3.36	3.45	3.53	3.62	3.70	3.79	3.88	3.96
7.	4.05	4.14	4.23	4.31	4.39	4.48	4.57	4.66	4.75	4.84
8.	4.93	5.02	5.11	5.20	5.29	5.38	5.47	5.56	5.65	5.75
9.	5.84	5.93	6.02	6.11	6.20	6.29	6.38	6.47	6.56	6.65
10.	6.75	6.84	6.94	7.03	7.12	7.21	7.30	7.40	7.50	7.60

TABLE 3-5  
RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 75)

CURVE  
75

Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
1.	0.03	0.05	0.07	0.10	0.13	0.16	0.20	0.24	0.28	0.33
2.	0.38	0.43	0.48	0.53	0.59	0.65	0.71	0.77	0.83	0.89
3.	0.95	1.02	1.09	1.16	1.23	1.30	1.37	1.44	1.52	1.59
4.	1.67	1.74	1.82	1.89	1.97	2.04	2.12	2.20	2.28	2.36
5.	2.44	2.52	2.61	2.69	2.77	2.85	2.94	3.02	3.11	3.19
6.	3.27	3.36	3.45	3.53	3.62	3.71	3.79	3.88	3.97	4.06
7.	4.15	4.24	4.32	4.40	4.49	4.58	4.67	4.76	4.86	4.95
8.	5.04	5.13	5.22	5.31	5.40	5.49	5.58	5.67	5.76	5.85
9.	5.94	6.04	6.13	6.22	6.32	6.41	6.50	6.59	6.68	6.78
10.	6.87	6.96	7.05	7.15	7.24	7.34	7.43	7.53	7.63	7.73

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 76)

CURVE  
76

Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02
1.	0.04	0.06	0.08	0.11	0.15	0.19	0.23	0.27	0.31	0.36
2.	0.41	0.46	0.51	0.57	0.63	0.69	0.75	0.81	0.88	0.95
3.	1.01	1.08	1.15	1.22	1.29	1.36	1.43	1.51	1.58	1.66
4.	1.74	1.81	1.89	1.97	2.05	2.13	2.21	2.29	2.37	2.46
5.	2.54	2.62	2.70	2.78	2.87	2.95	3.04	3.12	3.21	3.29
6.	3.38	3.47	3.55	3.64	3.73	3.81	3.90	3.99	4.08	4.17
7.	4.26	4.35	4.44	4.53	4.62	4.71	4.80	4.89	4.98	5.07
8.	5.16	5.25	5.34	5.43	5.52	5.61	5.70	5.80	5.89	5.98
9.	6.07	6.17	6.26	6.35	6.45	6.54	6.63	6.73	6.82	6.91
10.	7.01	7.10	7.19	7.28	7.37	7.47	7.57	7.66	7.75	7.85

TABLE 3-5  
RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 77)

CURVE  
77

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03
1.	0.05	0.07	0.10	0.14	0.18	0.22	0.26	0.30	0.34	0.39
2.	0.45	0.50	0.56	0.62	0.68	0.74	0.80	0.86	0.93	1.00
3.	1.07	1.14	1.21	1.28	1.35	1.43	1.50	1.57	1.65	1.73
4.	1.81	1.89	1.97	2.05	2.13	2.21	2.29	2.37	2.45	2.53
5.	2.62	2.70	2.79	2.87	2.96	3.04	3.13	3.22	3.30	3.39
6.	3.48	3.56	3.65	3.74	3.83	3.92	4.00	4.09	4.18	4.27
7.	4.36	4.45	4.54	4.63	4.72	4.81	4.90	5.00	5.09	5.18
8.	5.27	5.36	5.45	5.55	5.64	5.73	5.82	5.92	6.01	6.10
9.	6.19	6.29	6.38	6.47	6.57	6.66	6.76	6.85	6.94	7.04
10.	7.13	7.23	7.32	7.42	7.51	7.60	7.70	7.79	7.89	7.98

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 78)

CURVE  
78

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03
1.	0.06	0.09	0.12	0.15	0.19	0.23	0.27	0.32	0.37	0.42
2.	0.48	0.54	0.60	0.66	0.72	0.79	0.86	0.93	0.99	1.06
3.	1.13	1.20	1.27	1.35	1.43	1.50	1.58	1.65	1.73	1.81
4.	1.89	1.97	2.05	2.13	2.22	2.30	2.38	2.46	2.54	2.63
5.	2.72	2.81	2.89	2.98	3.06	3.15	3.24	3.32	3.41	3.50
6.	3.59	3.67	3.76	3.85	3.94	4.03	4.12	4.22	4.31	4.39
7.	4.48	4.58	4.67	4.76	4.85	4.94	5.03	5.12	5.22	5.31
8.	5.40	5.49	5.58	5.67	5.77	5.86	5.95	6.05	6.14	6.24
9.	6.33	6.43	6.52	6.61	6.71	6.80	6.90	6.99	7.09	7.18
10.	7.27	7.37	7.46	7.56	7.65	7.75	7.84	7.94	8.04	8.13

TABLE 3-5  
RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 79)

CURVE  
79

Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.05
1.	0.07	0.10	0.13	0.17	0.21	0.26	0.31	0.36	0.41	0.46
2.	0.52	0.58	0.64	0.70	0.77	0.84	0.91	0.98	1.05	1.12
3.	1.19	1.26	1.34	1.42	1.49	1.56	1.64	1.72	1.80	1.88
4.	1.96	2.04	2.13	2.21	2.29	2.38	2.46	2.55	2.63	2.72
5.	2.80	2.89	2.98	3.07	3.15	3.24	3.32	3.41	3.50	3.59
6.	3.68	3.77	3.86	3.95	4.04	4.13	4.22	4.31	4.40	4.49
7.	4.58	4.68	4.77	4.86	4.95	5.04	5.13	5.23	5.32	5.42
8.	5.51	5.60	5.68	5.78	5.88	5.98	6.07	6.16	6.26	6.35
9.	6.45	6.54	6.63	6.73	6.82	6.92	7.01	7.11	7.20	7.30
10.	7.39	7.49	7.58	7.68	7.77	7.87	7.97	8.06	8.16	8.25

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 80)

CURVE  
80

Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.05
1.	0.08	0.11	0.15	0.19	0.24	0.29	0.34	0.39	0.44	0.50
2.	0.56	0.62	0.68	0.75	0.82	0.89	0.96	1.03	1.10	1.17
3.	1.25	1.33	1.40	1.48	1.56	1.64	1.72	1.80	1.88	1.96
4.	2.04	2.12	2.20	2.29	2.38	2.46	2.55	2.63	2.72	2.81
5.	2.89	2.98	3.07	3.16	3.25	3.34	3.43	3.52	3.61	3.69
6.	3.78	3.87	3.96	4.05	4.14	4.23	4.32	4.42	4.51	4.60
7.	4.69	4.79	4.88	4.97	5.06	5.16	5.25	5.34	5.44	5.53
8.	5.62	5.72	5.81	5.91	6.00	6.09	6.19	6.28	6.38	6.47
9.	6.57	6.66	6.76	6.85	6.95	7.04	7.14	7.23	7.33	7.43
10.	7.52	7.62	7.71	7.81	7.90	8.00	8.10	8.19	8.29	8.38

TABLE 3-5  
RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 81)

CURVE  
81

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.07
1.	0.10	0.13	0.17	0.21	0.26	0.31	0.36	0.42	0.48	0.54
2.	0.60	0.66	0.73	0.80	0.87	0.94	1.01	1.09	1.16	1.23
3.	1.31	1.39	1.47	1.55	1.63	1.71	1.79	1.87	1.95	2.03
4.	2.12	2.20	2.29	2.37	2.46	2.55	2.63	2.72	2.81	2.89
5.	2.98	3.07	3.16	3.25	3.34	3.43	3.52	3.61	3.70	3.79
6.	3.88	3.97	4.06	4.16	4.25	4.34	4.43	4.52	4.61	4.71
7.	4.80	4.90	4.99	5.08	5.17	5.27	5.36	5.46	5.55	5.64
8.	5.74	5.84	5.93	6.02	6.11	6.20	6.29	6.39	6.49	6.59
9.	6.69	6.79	6.88	6.97	7.06	7.15	7.25	7.35	7.45	7.55
10.	7.64	7.74	7.84	7.93	8.03	8.12	8.21	8.31	8.41	8.51

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 82)

CURVE  
82

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.05	0.08
1.	0.11	0.15	0.19	0.24	0.29	0.34	0.40	0.46	0.52	0.58
2.	0.65	0.72	0.78	0.85	0.92	0.99	1.06	1.14	1.22	1.30
3.	1.38	1.46	1.53	1.61	1.69	1.77	1.86	1.94	2.02	2.11
4.	2.20	2.29	2.38	2.46	2.55	2.64	2.73	2.81	2.90	2.99
5.	3.08	3.17	3.26	3.35	3.44	3.53	3.62	3.71	3.80	3.89
6.	3.98	4.07	4.17	4.26	4.35	4.45	4.54	4.63	4.73	4.82
7.	4.91	5.01	5.11	5.20	5.29	5.39	5.48	5.57	5.67	5.76
8.	5.86	5.95	6.05	6.14	6.24	6.33	6.43	6.53	6.62	6.71
9.	6.81	6.91	7.01	7.11	7.21	7.30	7.40	7.49	7.59	7.68
10.	7.77	7.87	7.97	8.07	8.17	8.26	8.36	8.46	8.55	8.64

TABLE 3-5  
RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 83)

CURVE  
83

Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.06	0.09
1.	0.13	0.17	0.22	0.27	0.32	0.38	0.44	0.50	0.56	0.63
2.	0.70	0.76	0.83	0.91	0.98	1.06	1.13	1.21	1.29	1.37
3.	1.45	1.53	1.61	1.69	1.77	1.86	1.94	2.03	2.11	2.20
4.	2.29	2.37	2.46	2.55	2.64	2.73	2.82	2.91	3.00	3.08
5.	3.17	3.26	3.35	3.45	3.54	3.63	3.72	3.81	3.90	4.00
6.	4.09	4.18	4.28	4.37	4.46	4.55	4.65	4.74	4.84	4.93
7.	5.02	5.12	5.21	5.31	5.40	5.50	5.60	5.69	5.78	5.88
8.	5.98	6.07	6.17	6.26	6.36	6.45	6.55	6.65	6.74	6.84
9.	6.93	7.03	7.13	7.22	7.32	7.42	7.51	7.61	7.71	7.80
10.	7.90	8.00	8.09	8.19	8.29	8.39	8.48	8.58	8.68	8.77

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 84)

CURVE  
84

Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.05	0.08	0.11
1.	0.15	0.20	0.25	0.30	0.35	0.41	0.48	0.54	0.61	0.68
2.	0.74	0.82	0.89	0.97	1.04	1.12	1.20	1.28	1.36	1.44
3.	1.52	1.60	1.68	1.77	1.85	1.94	2.03	2.11	2.20	2.29
4.	2.37	2.46	2.55	2.64	2.73	2.82	2.91	3.00	3.09	3.18
5.	3.27	3.37	3.46	3.55	3.64	3.73	3.82	3.92	4.01	4.11
6.	4.20	4.29	4.39	4.48	4.58	4.67	4.76	4.86	4.95	5.05
7.	5.14	5.24	5.33	5.43	5.52	5.62	5.71	5.81	5.91	6.00
8.	6.10	6.20	6.30	6.39	6.48	6.58	6.68	6.77	6.87	6.97
9.	7.06	7.16	7.26	7.35	7.45	7.55	7.65	7.74	7.84	7.94
10.	8.03	8.13	8.23	8.33	8.42	8.52	8.61	8.71	8.81	8.91

TABLE 3-5  
RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 85)

CURVE  
85

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.06	0.09	0.13
1.	0.18	0.22	0.28	0.33	0.39	0.45	0.52	0.59	0.65	0.73
2.	0.80	0.87	0.95	1.02	1.10	1.18	1.26	1.34	1.42	1.51
3.	1.59	1.68	1.76	1.85	1.93	2.02	2.11	2.20	2.28	2.37
4.	2.46	2.55	2.64	2.73	2.82	2.91	3.00	3.09	3.19	3.28
5.	3.37	3.47	3.56	3.65	3.74	3.84	3.93	4.03	4.12	4.21
6.	4.31	4.40	4.50	4.59	4.69	4.78	4.87	4.97	5.06	5.16
7.	5.26	5.35	5.55	5.95	5.64	5.74	5.84	5.93	6.03	6.12
8.	6.22	6.32	6.41	6.50	6.60	6.70	6.80	6.90	6.99	7.09
9.	7.19	7.28	7.38	7.48	7.57	7.67	7.77	7.87	7.97	8.06
10.	8.16	8.26	8.35	8.45	8.55	8.65	8.75	8.84	8.94	9.04

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 86)

CURVE  
86

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.07	0.11	0.15
1.	0.20	0.25	0.30	0.36	0.42	0.49	0.56	0.63	0.70	0.77
2.	0.85	0.92	1.00	1.08	1.16	1.24	1.33	1.41	1.49	1.57
3.	1.66	1.74	1.83	1.92	2.00	2.09	2.18	2.27	2.36	2.45
4.	2.54	2.63	2.72	2.81	2.91	3.00	3.09	3.18	3.28	3.37
5.	3.46	3.56	3.65	3.74	3.83	3.93	4.02	4.12	4.21	4.31
6.	4.40	4.50	4.59	4.69	4.78	4.88	4.98	5.07	5.17	5.27
7.	5.36	5.46	5.55	5.65	5.74	5.84	5.94	6.03	6.13	6.22
8.	6.32	6.42	6.52	6.61	6.71	6.81	6.91	7.01	7.10	7.20
9.	7.30	7.40	7.50	7.60	7.70	7.79	7.88	7.98	8.08	8.18
10.	8.27	8.37	8.47	8.57	8.67	8.76	8.86	8.96	9.06	9.16

TABLE 3-5  
RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 87)

CURVE  
87

Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.00	0.00	0.00	0.00	0.02	0.05	0.08	0.13	0.17
1.	0.22	0.28	0.34	0.40	0.47	0.54	0.61	0.69	0.75	0.83
2.	0.91	0.98	1.06	1.15	1.23	1.31	1.39	1.47	1.56	1.65
3.	1.74	1.83	1.92	2.01	2.09	2.18	2.27	2.36	2.45	2.55
4.	2.64	2.73	2.82	2.91	3.01	3.10	3.19	3.28	3.38	3.47
5.	3.57	3.67	3.76	3.85	3.95	4.04	4.13	4.23	4.32	4.42
6.	4.51	4.61	4.71	4.80	4.90	5.00	5.09	5.19	5.29	5.38
7.	5.48	5.58	5.67	5.77	5.87	5.97	6.06	6.16	6.25	6.35
8.	6.45	6.55	6.64	6.74	6.84	6.94	7.03	7.13	7.23	7.33
9.	7.43	7.52	7.62	7.72	7.81	7.91	8.01	8.11	8.21	8.31
10.	8.41	8.51	8.61	8.70	8.80	8.90	9.00	9.10	9.20	9.30

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 88)

CURVE  
88

Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.00	0.00	0.00	0.01	0.03	0.05	0.10	0.15	0.20
1.	0.25	0.31	0.38	0.44	0.51	0.58	0.65	0.73	0.81	0.88
2.	0.96	1.04	1.12	1.21	1.30	1.38	1.47	1.55	1.64	1.73
3.	1.82	1.90	1.99	2.08	2.17	2.26	2.35	2.44	2.54	2.63
4.	2.72	2.82	2.91	3.00	3.10	3.19	3.29	3.38	3.47	3.57
5.	3.66	3.76	3.85	3.95	4.05	4.14	4.23	4.33	4.42	4.52
6.	4.62	4.72	4.81	4.91	5.01	5.10	5.20	5.29	5.39	5.49
7.	5.58	5.68	5.78	5.88	5.97	6.07	6.17	6.27	6.36	6.46
8.	6.56	6.66	6.75	6.85	6.95	7.05	7.15	7.24	7.34	7.44
9.	7.54	7.64	7.73	7.83	7.93	8.03	8.13	8.23	8.33	8.43
10.	8.53	8.63	8.73	8.83	8.92	9.03	9.12	9.22	9.32	9.42

TABLE 3-5  
RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 89)

CURVE  
89

Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.00	0.00	0.00	0.02	0.04	0.08	0.12	0.17	0.22
1.	0.28	0.35	0.41	0.48	0.55	0.63	0.71	0.78	0.86	0.94
2.	1.03	1.11	1.19	1.28	1.37	1.46	1.54	1.63	1.72	1.81
3.	1.90	1.99	2.08	2.17	2.26	2.36	2.45	2.54	2.64	2.73
4.	2.82	2.92	3.01	3.11	3.20	3.30	3.39	3.49	3.58	3.68
5.	3.77	3.87	3.96	4.06	4.16	4.25	4.35	4.45	4.54	4.64
6.	4.74	4.83	4.93	5.02	5.12	5.22	5.32	5.42	5.51	5.61
7.	5.71	5.80	5.90	6.00	6.10	6.20	6.30	6.39	6.49	6.59
8.	6.69	6.79	6.88	6.98	7.08	7.18	7.28	7.38	7.47	7.57
9.	7.67	7.77	7.87	7.97	8.06	8.16	8.26	8.36	8.46	8.56
10.	8.66	8.76	8.86	8.95	9.05	9.15	9.25	9.35	9.45	9.55

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 90)

CURVE  
90

Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.00	0.00	0.01	0.03	0.06	0.10	0.15	0.20	0.26
1.	0.32	0.39	0.46	0.53	0.61	0.69	0.77	0.85	0.93	1.01
2.	1.10	1.18	1.27	1.35	1.44	1.53	1.62	1.71	1.80	1.89
3.	1.99	2.08	2.17	2.26	2.36	2.45	2.54	2.64	2.73	2.83
4.	2.92	3.02	3.11	3.20	3.30	3.40	3.49	3.59	3.69	3.78
5.	3.88	3.97	4.07	4.17	4.26	4.36	4.46	4.56	4.65	4.75
6.	4.85	4.95	5.04	5.14	5.24	5.34	5.44	5.54	5.63	5.73
7.	5.83	5.92	6.02	6.12	6.21	6.31	6.41	6.51	6.61	6.71
8.	6.81	6.91	7.01	7.11	7.20	7.30	7.40	7.50	7.60	7.70
9.	7.79	7.89	7.99	8.09	8.19	8.29	8.39	8.49	8.58	8.68
10.	8.78	8.88	8.98	9.08	9.18	9.28	9.38	9.48	9.57	9.67

TABLE 3-5  
RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 91)

CURVE  
91

Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.00	0.00	0.01	0.03	0.07	0.12	0.17	0.23	0.29
1.	0.36	0.43	0.50	0.58	0.66	0.74	0.82	0.91	0.99	1.08
2.	1.17	1.25	1.34	1.43	1.52	1.61	1.70	1.80	1.89	1.98
3.	2.07	2.16	2.26	2.35	2.44	2.54	2.63	2.73	2.83	2.92
4.	3.02	3.11	3.21	3.30	3.40	3.50	3.59	3.69	3.79	3.89
5.	3.99	4.08	4.17	4.27	4.37	4.47	4.56	4.66	4.76	4.86
6.	4.96	5.05	5.15	5.25	5.34	5.44	5.54	5.64	5.74	5.84
7.	5.94	6.04	6.14	6.24	6.34	6.44	6.53	6.63	6.73	6.83
8.	6.93	7.03	7.13	7.23	7.33	7.43	7.52	7.62	7.72	7.82
9.	7.92	8.02	8.12	8.22	8.31	8.41	8.51	8.61	8.71	8.81
10.	8.91	9.01	9.11	9.21	9.31	9.41	9.51	9.61	9.71	9.80

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 92)

CURVE  
92

Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.00	0.00	0.02	0.05	0.09	0.14	0.20	0.26	0.33
1.	0.41	0.48	0.56	0.64	0.72	0.80	0.89	0.97	1.06	1.15
2.	1.24	1.33	1.42	1.51	1.60	1.69	1.78	1.88	1.98	2.07
3.	2.16	2.26	2.35	2.45	2.54	2.64	2.74	2.83	2.93	3.02
4.	3.12	3.22	3.31	3.41	3.51	3.60	3.70	3.80	3.90	4.00
5.	4.09	4.19	4.29	4.39	4.48	4.58	4.68	4.78	4.88	4.97
6.	5.07	5.17	5.27	5.37	5.47	5.56	5.66	5.76	5.86	5.96
7.	6.06	6.15	6.25	6.35	6.45	6.55	6.65	6.75	6.85	6.95
8.	7.05	7.15	7.25	7.34	7.44	7.54	7.64	7.74	7.84	7.94
9.	8.04	8.14	8.24	8.33	8.43	8.53	8.63	8.73	8.83	8.93
10.	9.03	9.13	9.23	9.33	9.43	9.53	9.63	9.73	9.83	9.93

TABLE 3-5  
RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 93)

CURVE  
93

Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.00	0.00	0.03	0.06	0.11	0.17	0.23	0.30	0.38
1.	0.45	0.53	0.61	0.70	0.78	0.87	0.96	1.04	1.13	1.22
2.	1.32	1.41	1.50	1.59	1.69	1.78	1.88	1.97	2.06	2.16
3.	2.26	2.35	2.45	2.54	2.64	2.74	2.83	2.93	3.03	3.12
4.	3.22	3.32	3.42	3.51	3.61	3.71	3.81	3.91	4.00	4.10
5.	4.20	4.30	4.40	4.50	4.59	4.69	4.79	4.89	4.99	5.09
6.	5.18	5.28	5.38	5.48	5.58	5.68	5.78	5.88	5.97	6.07
7.	6.17	6.27	6.37	6.47	6.57	6.67	6.77	6.87	6.97	7.07
8.	7.17	7.26	7.36	7.46	7.56	7.66	7.76	7.86	7.96	8.06
9.	8.16	8.26	8.36	8.46	8.56	8.66	8.75	8.85	8.95	9.05
10.	9.15	9.25	9.35	9.45	9.55	9.65	9.75	9.85	9.95	10.05

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 94)

CURVE  
94

Rainfall

Tenths Inches \	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.00	0.01	0.04	0.08	0.14	0.20	0.27	0.34	0.42
1.	0.50	0.58	0.67	0.76	0.84	0.93	1.02	1.11	1.21	1.30
2.	1.39	1.49	1.58	1.68	1.77	1.87	1.97	2.06	2.15	2.24
3.	2.35	2.44	2.54	2.64	2.73	2.83	2.93	3.03	3.13	3.22
4.	3.32	3.42	3.52	3.62	3.72	3.81	3.91	4.01	4.11	4.21
5.	4.30	4.40	4.50	4.60	4.70	4.80	4.90	5.00	5.10	5.19
6.	5.29	5.39	5.49	5.59	5.69	5.79	5.89	5.99	6.09	6.18
7.	6.28	6.38	6.48	6.58	6.68	6.78	6.88	6.98	7.08	7.18
8.	7.27	7.37	7.47	7.57	7.67	7.77	7.87	7.97	8.07	8.17
9.	8.27	8.37	8.47	8.57	8.67	8.77	8.87	8.97	9.07	9.17
10.	9.27	9.37	9.47	9.57	9.67	9.77	9.87	9.97	10.07	10.17

TABLE 3-5  
RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 95)

CURVE  
95

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.00	0.01	0.05	0.11	0.17	0.24	0.32	0.40	0.48
1.	0.56	0.65	0.74	0.83	0.92	1.01	1.11	1.20	1.30	1.39
2.	1.48	1.58	1.68	1.78	1.87	1.97	2.07	2.16	2.26	2.36
3.	2.44	2.54	2.64	2.74	2.84	2.93	3.03	3.13	3.23	3.32
4.	3.42	3.52	3.62	3.72	3.82	3.92	4.02	4.12	4.21	4.31
5.	4.41	4.51	4.61	4.71	4.81	4.91	5.01	5.11	5.21	5.30
6.	5.40	5.50	5.60	5.70	5.80	5.90	6.00	6.10	6.20	6.30
7.	6.40	6.50	6.60	6.70	6.80	6.90	7.00	7.10	7.19	7.29
8.	7.39	7.49	7.59	7.69	7.79	7.89	7.99	8.09	8.19	8.29
9.	8.39	8.49	8.59	8.69	8.79	8.89	8.99	9.09	9.19	9.29
10.	9.39	9.49	9.59	9.69	9.79	9.89	9.99	10.09	10.19	10.29

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 96)

CURVE  
96

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.01	0.04	0.08	0.14	0.22	0.29	0.37	0.46	0.55
1.	0.64	0.73	0.82	0.91	1.01	1.10	1.20	1.29	1.39	1.48
2.	1.58	1.68	1.77	1.87	1.97	2.07	2.17	2.26	2.36	2.46
3.	2.56	2.66	2.76	2.86	2.95	3.05	3.15	3.25	3.35	3.45
4.	3.55	3.65	3.75	3.85	3.95	4.05	4.14	4.24	4.34	4.44
5.	4.54	4.64	4.74	4.84	4.92	5.04	5.14	5.24	5.34	5.44
6.	5.54	5.64	5.74	5.84	5.93	6.03	6.13	6.23	6.33	6.43
7.	6.53	6.63	6.73	6.83	6.93	7.03	7.13	7.23	7.33	7.43
8.	7.53	7.63	7.73	7.83	7.93	8.03	8.13	8.23	8.33	8.43
9.	8.53	8.63	8.73	8.83	8.93	9.03	9.13	9.23	9.33	9.43
10.	9.53	9.63	9.73	9.83	9.93	10.03	10.13	10.23	10.32	10.42

TABLE 3-5  
RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 97)

CURVE  
97

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.00	0.04	0.11	0.18	0.26	0.35	0.44	0.53	0.62
1.	0.71	0.81	0.90	1.00	1.10	1.19	1.29	1.39	1.49	1.58
2.	1.68	1.78	1.88	1.98	2.08	2.17	2.27	2.37	2.47	2.57
3.	2.67	2.77	2.87	2.97	3.07	3.16	3.26	3.36	3.46	3.56
4.	3.66	3.76	3.86	3.96	4.06	4.16	4.26	4.36	4.46	4.56
5.	4.66	4.76	4.86	4.96	5.06	5.16	5.26	5.36	5.46	5.55
6.	5.65	5.75	5.85	5.95	6.05	6.15	6.25	6.35	6.45	6.55
7.	6.65	6.75	6.85	6.95	7.05	7.15	7.25	7.35	7.45	7.55
8.	7.65	7.75	7.85	7.95	8.05	8.15	8.25	8.35	8.45	8.55
9.	8.65	8.75	8.85	8.95	9.05	9.15	9.25	9.35	9.45	9.55
10.	9.65	9.75	9.85	9.95	10.05	10.15	10.25	10.35	10.45	10.55

RUNOFF FOR INCHES OF RAINFALL  
(Curve No. 98)

CURVE  
98

Rainfall Inches \ Tenth Inches	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.	0.00	0.01	0.07	0.05	0.23	0.32	0.41	0.51	0.60	0.69
1.	0.79	0.89	0.99	1.09	1.19	1.28	1.38	1.48	1.58	1.68
2.	1.78	1.88	1.98	2.08	2.18	2.27	2.37	2.47	2.57	2.67
3.	2.77	2.87	2.97	3.07	3.17	3.27	3.37	3.47	3.57	3.67
4.	3.77	3.87	3.97	4.07	4.17	4.27	4.37	4.47	4.57	4.67
5.	4.77	4.87	4.97	5.07	5.17	5.27	5.37	5.47	5.57	5.67
6.	5.77	5.87	5.97	6.07	6.17	6.27	6.37	6.47	6.57	6.67
7.	6.77	6.87	6.97	7.07	7.17	7.27	7.37	7.47	7.57	7.67
8.	7.76	7.86	7.96	8.06	8.16	8.26	8.36	8.46	8.56	8.66
9.	8.76	8.86	8.96	9.06	9.16	9.26	9.36	9.46	9.56	9.66
10.	9.76	9.86	9.96	10.06	10.16	10.26	10.36	10.46	10.56	10.66